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The WrightStater

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Fall 1982

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In this issue:

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WRIGHT STATE
Wright State University
Dayton, Ohio 45435

Wright State review

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The WrightStater (USPS 437-730) is published four times a year, January, April, July, and October. Published by Wright State University, Dayton, Ohio 45435, Office of University Communications, Larry Kinneer, director. Second class postage paid at Dayton, Ohio.

POSTMASTER: Send address changes to *The WrightStater*, Office of Alumni Affairs, Dayton, Ohio 45435.

WRIGHT STATE

Wright State University
Dayton, Ohio 45435

Kegerreis named chairman

Wright State President Robert J. Kegerreis has assumed the chairmanship of the Inter-University Council (IUC) of Ohio for 1982-83.

The IUC was formed four decades ago to provide a forum for consideration of issues affecting higher education in the state and for joint action on matters of mutual concern.

Arts program initiated

Wright State University is participating in an innovative effort to develop an appreciation for the fine arts among high school students.

The program, the Muse Machine, will incorporate fine arts faculty and students from several area universities and colleges, according to Dee Levitan Lane, WSU assistant professor of music and a member of the Muse Machine Board of Trustees.

Local high schools have established Muse Machine clubs, which once a month during the school year will receive special presentations or take field trips relating to theatre, opera, dance, music, and the visual arts.

The WSU Opera Workshop will perform "The Marriage of Figaro" as the February Muse Machine highlight. The Opera Workshop and the WSU Theatre students participated in a "Once in a Lifetime Festival" last May sponsored in part by the Muse Machine.

"In order to have an audience of young people for the arts, you have to build it," Levitan Lane said.

Horizons extended

Expanding Horizons, originally established to assist adult women in the transition to college, has been extended to offer support services to both men and women. Expanding Horizons is geared to the special needs of adult students beginning or resuming their college education. Through limited enrollment classes and a supportive atmosphere, the program tries to minimize the stresses of combining studies with work and family responsibilities and reduce concerns over outdated knowledge and competition with younger students. The program offers adults special courses, orientation programs and counseling.

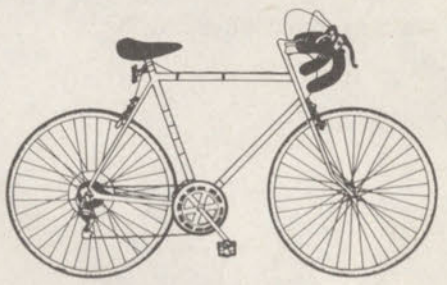
Nutter appointed to Board

Ervin J. Nutter, president of Elano Enterprises of Beavercreek, has been appointed to the Wright State University Board of Trustees by Ohio Governor James A. Rhodes.

Nutter's term will extend through June 30, 1991. He replaces Armistead W. Gilliam, Jr., a Dayton attorney, whose term expired June 30.

"It's an exciting opportunity for me," Nutter said. "I certainly will do my best and I hope to contribute to the university's continuing development."

Nutter, a former chief of the Wright-Patterson Air Force Base testing laboratory, started a small research and development company as a part-time venture in 1946. In 1951 he left Wright-Patterson to become President of Elano Corporation, which has developed into a $30 million a year enterprise.



Safety program underway

In an effort to teach children bicycle safety, the Miami Valley Regional Bicycle Council (MVRBC) recently awarded a $6,697 grant to Wright State University's Division of Health, Physical Education and Recreation, to plan and conduct a bicycle safety program.

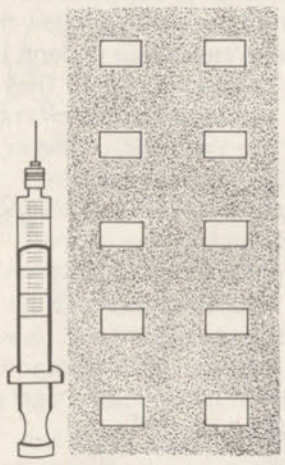
The program's goal is to educate 2,000 fourth-grade elementary students on bicycle safety by next summer, according to grant supervisor Dr. Stephen Frederick, WSU director of health, physical education and recreation.

The grant will be used to provide a three credit hour workshop during the fall quarter to 20 selected elementary and physical education instructors who will provide classroom instruction and implement a bicycle education program for their schools.

Library acquires files

Part of a collection from the files of French artist Daniel DeLosques, recently was acquired by the Wright State University Library Department of Archives and Special Collections.

Wilbur Wright went to France in 1908, seeking investment in the airplane. During this time period, DeLosques made many sketches of Wright in pen and ink. DeLosques' files, recently found in Quebec, included postcards depicting the Wright Camp d'Auvours flights, sketches, an etching and photograph of Wilbur Wright, plus examples of his poster work. The etching is currently on display in the Wright Brothers Room in the library.



Bandage generates gift

The Wright State University Foundation has received the first gift, of approximately $6,000, to establish the Lubens-Richman Clinical Asthma, Allergy, and Immunology Fund to promote and support clinical medical education and research in these fields in the WSU School of Medicine.

The gift was made by area physician Herman Lubens, M.D., who has developed an innovative pain-killing bandage. Last year, Dr. Lubens agreed to donate a substantial percentage of the proceeds from the patented "Occlusively Applied Anesthetic Patch" to the university. A fund was to be established to administer the donations.

The fund is established under the auspices of the WSU Foundation, which is the principal organization for private giving at Wright State.

Hewitt scholars named

Scholarships have been awarded to 39 freshmen who have demonstrated academic excellence.

The scholarships were made possible by the Charles H. Hewitt Scholarship Fund. In February 1982, a donation of $1 million—the largest single donation for scholarships in the university's history—was made on behalf of the late Charles H. Hewitt.

New appointments

Many new appointments were announced over the summer months at Wright State.

Dr. Perry D. Moore assumed the post of acting dean of the College of Liberal Arts. Moore replaces **Dr. Eugene Cantelupe**, who resigned and became only the second University Professor in Wright State's history. As University Professor for the 1982-83 academic year, Cantelupe will teach in the Departments of English and Art History.

Mrs. Sarah O. Johnson, acting chairman of the Wright State University Department of Music and assistant professor of music, has been named chairman of the Department of Music. She has been a member of the music faculty since 1970 and has served as coordinator of Applied Music and of the Community Music Division program which she developed.

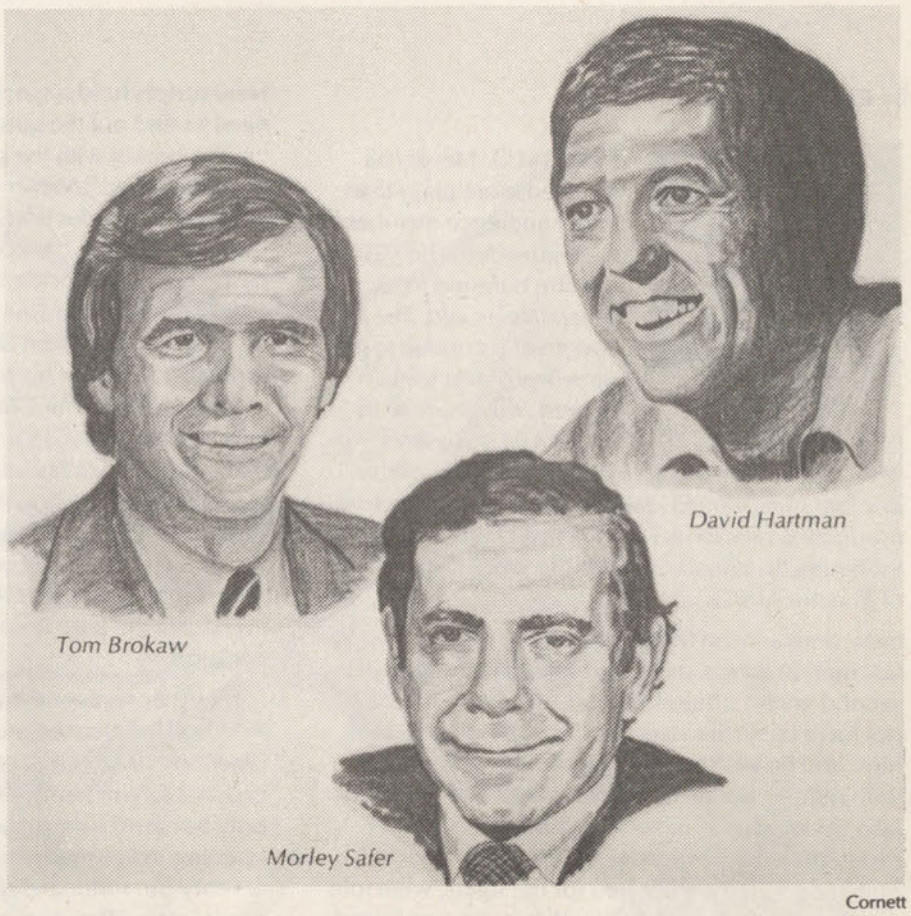
Dr. Donna Deane has been appointed associate dean for the Undergraduate Programs, School of Nursing. She has been assistant director of the Ohio State University School of Nursing since 1978. She will be responsible for the administration of the Wright State undergraduate nursing program and also will teach graduate level nursing courses.

James H. Hazel, assistant professor in the Wright State Department of Community Medicine, has been named to direct the Frederick A. White Center for Ambulatory Care at Wright State. As director, he will oversee the administrative functions of the WSU center and will report to the Office of the Provost, according to WSU Provost and Senior Vice-President John R. Beljan. Hazel will continue as a faculty member in the WSU School of Medicine.

Agreement announced

The Board of Trustees approved an exchange agreement with Peking Normal University recently. The agreement, expected to enhance international cooperation and promote cultural understanding.

SPOTLIGHT



Cornett

by Carol Siyahi

What do "60 Minutes," "NBC Nightly News," and "Good Morning America" have in common? An interest in a revolutionary project going on at Wright State University, that could change the way thousands of people live their lives. The project is headed by Dr. Jerrold S. Petrofsky, associate professor of biomedical engineering and physiology and director of the biomedical engineering laboratories at Wright State.

Over the past few months, camera crews from as far away as Great Britain have traveled to Wright State's campus to film the project which could someday help paralyzed people walk again. The project, which had its beginnings more than 13 years ago, has already achieved some major breakthroughs, including getting individuals paralyzed from spinal injuries to pedal a stationary bicycle and outdoor tricycle. The individuals in both instances are assisted by Petrofsky's computerized electrical stimulation-feedback system, which is capable of producing controlled, coordinated movement in the legs of paralyzed people.

The most recent visit to campus by a news crew was made by "60 Minutes," which brought Morley Safer to Petrofsky's lab in Oelman Hall. The CBS crew spent two full days filming the project and promised a return visit to capture on film the latest developments in the project before the segment is scheduled to air during the new television season.

The "Good Morning America" crew stayed a day and filmed the first successful outdoor tricycle ride by a person paralyzed from spinal injuries. What the crew saw that day excited and moved them.

Petrofsky and his colleagues, Chandler Phillips, M.D., director of WSU's biomedical engineering program, and Dr. Roger Glaser, WSU professor of physiology, gave the tricycle that student Nan Davis was to ride an initial push. Then, through the magic of electronics, Nan's paralyzed legs began pushing the pedals of the tricycle, moving the tricycle across campus. Dozens of bystanders broke into spontaneous applause. The ABC-TV camera crew recorded Nan's ride into history. Millions of television viewers across the country would watch that moment replayed on network television, as David Hartman introduced the subject to the American public on "Good Morning America."

Prior to the "Good Morning America" visit, the third of the major US networks, NBC, sent an "NBC Nightly News" team to do the story. The segment aired shortly after it was filmed in late June and brought a flood of calls to the university, as did the ABC segment.

While the story of the project continues to be told across the US and in publications as far away as Australia, Petrofsky and his assistants are working toward the final stage of their dream: to make a paralyzed person walk again. •

A life in theatre and "A Life"

by Richard Hansen

Meyer

Richard D. Meyer has directed more plays than many audience members have attended—he passed the one hundred mark several years ago. The count will continue to go up when Meyer's life in theatre adds *A Life* to its vita. *A Life* represents Wright State University Theatre's first winter season professional actor production as well as Meyer's first Dayton credit, following his appointment to the WSU Department of Theatre Arts faculty.

How does a life in theatre begin? For Meyer, a fascination for the stage developed from a role in the second grade, a thundercloud. While Meyer may not have taken the stage by storm, the theatre took him, and he weathered the rest of his schooldays with regular acting assignments. His directing debut also doubled as another first, the first amateur production of *I Remember Mama*. "It was luck," Meyer recalls. "We applied for the rights, were told the play was not available, and then received word at the last minute we could do it." The production was staged by a community theatre in Springfield, Missouri. Meyer was eighteen.

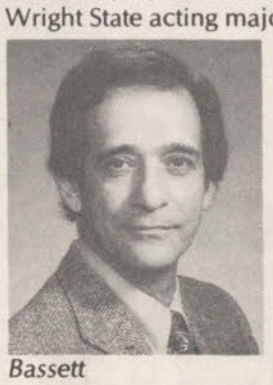
More firsts followed. The inaugural year for Lincoln Center found Meyer serving as Elia Kazan's assistant. A co-founder of the Actors' Studio where actors learned the Method, Kazan probably remains best known for his films "On the Waterfront" and "A Streetcar Named Desire." In 1962, Kazan became co-director of the Lincoln Center Repertory Theatre, and Meyer personally views that year as his own greatest experience. "Kazan is an energy person," he explains. "He had the knack of making everybody feel they were the only person he was talking to. Actors would worship him in a nice way."

The first Lincoln Center show was Arthur Miller's *After the Fall*. During a two month rehearsal period, Meyer came to admire Miller's work. He later produced, at the University of Michigan, the world premiere of Miller's *Up from Paradise*. A musical with Miller penning the book and lyrics, and a score by Stanley Silverman, *Up from Paradise* still seeks a Broadway opening. "Every time I hear from Miller, he hopes it won't be much longer," Meyer notes.

New scripts hold a special interest for Meyer. "You need to find out the guts of the script," he explains, "and working with the playwright, you enhance the script together." Meyer enjoys the influence of an author on a production but will not hesitate to re-shape a script. "You cut a play to match the cast." While at Florida State University, Tallahassee, Meyer directed *No Silver Saints*, a new property owned by actor Eddie Dowling. Much of Dowling's reputation rests on his roles in the original *The Time of Your Life* and *The Glass Menagerie*. "Dowling cast himself as a villain. Well, he's not a villain, and he couldn't learn his lines." Meyer changed the script and re-cast Dowling as a narrator. After the show finished its run, Dowling met with the entire company, many of whom were students. "He said the grandest thing that happened to him was getting fired from the part. It was the correct professional decision."

Sometimes someone questions Meyer's decisions. Another Tallahassee project was *The Threepenny Opera* in 1972, with Lotte Lenya re-creating her original role of Jenny. Perhaps remarkably, it was only her third time in the play since its historic opening in Germany in 1928. "She was nearly seventy but fortunately looked forty-five," Meyer reminisces. "But you couldn't hear her sing. I suggested miking her, and she was insulted. 'I will sing when it's time,' she said. And she did."

The opportunity to direct professionals and students in the same production poses no unusual problems for Meyer. He believes amateur and professional theatre share common challenges and follow the same solutions. "Just don't treat your students like second-class citizens," Meyer cautions. "They can develop a whole new appreciation for their craft as you work with them." For Wright State, Meyer gladly chose to direct *A Life*, Hugh Leonard's touching Irish drama about four people looking back at their pasts and reliving times happy, hilarious, and heartbreaking. The eight-person show, opening at the Festival Playhouse in the Creative Arts Center on Tuesday, January 18, will feature Equity actors in the four older roles and Wright State acting majors in the four younger parts.



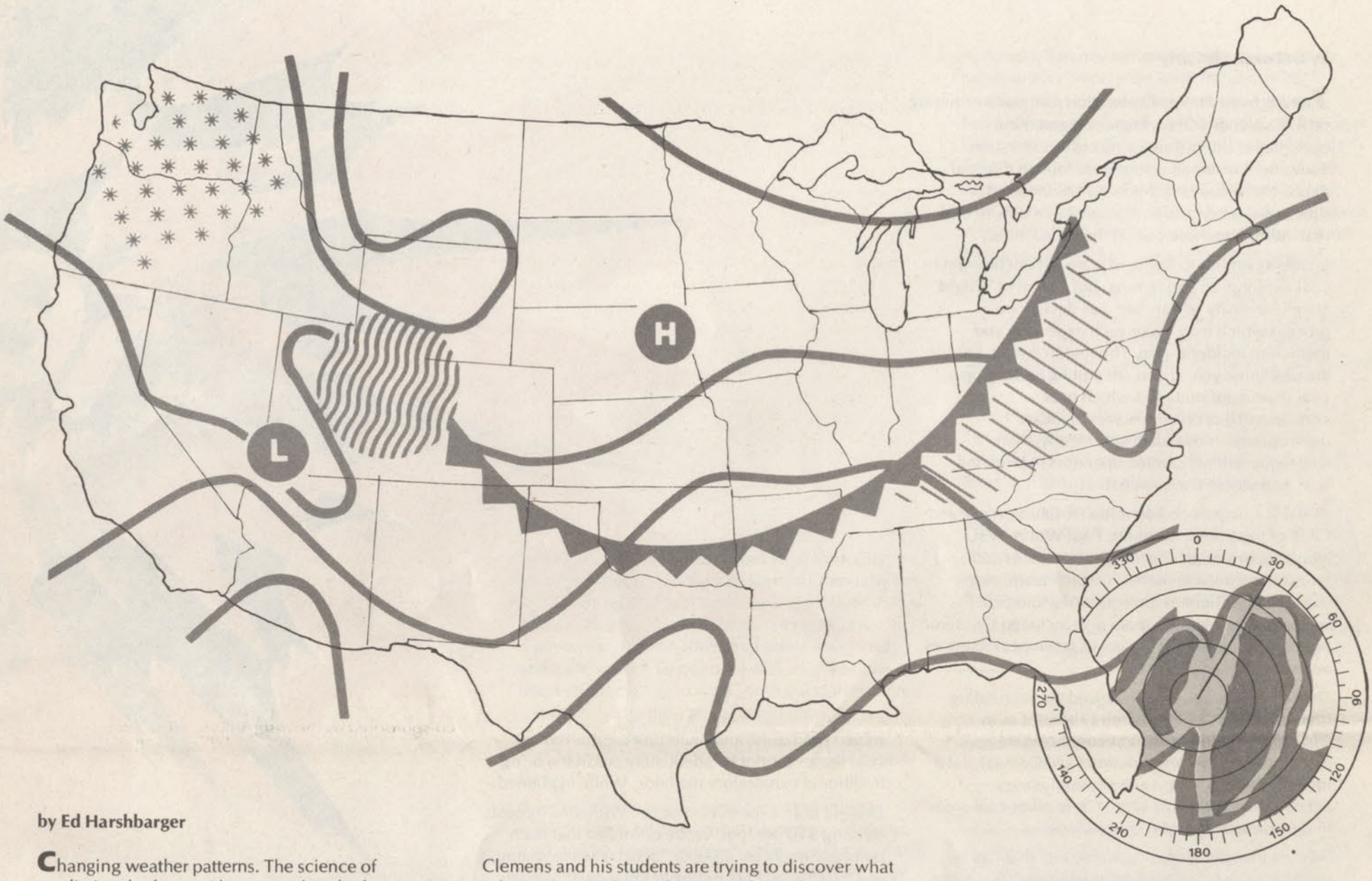
Bassett

University Theatre Producing Director Abe J. Bassett considers the scheduling of a professional production a landmark for the school. "It is a bold move," Bassett recently stated in an interview. "It is an experiment which remains consistent with the evolution of the Department of Theatre Arts. Just as importantly, *A Life* offers a great opportunity for the community. We will have an Irish Festival co-sponsored by the Irish-American Cultural Institute, and our audiences will be treated to pre-show entertainment." ●

Tickets for A Life *are available at the University Theatre Box Office in the Creative Arts Center beginning November 1. Office hours are noon to 5 pm Monday through Friday. Group inquiries may be directed in advance to theatre business manager Dick Hansen by calling 873-2562. The production plays Tuesday through Sunday evenings at 8 pm and Sunday afternoons at 3 pm from January 18 through February 6.*

Theatre crowd at Creative Arts Center.

Weather patterns and their effects



by Ed Harshbarger

Changing weather patterns. The science of predicting the future. Almost two-hundred years ago Thomas Jefferson and Benjamin Franklin began observing changing weather patterns in hopes of being able to predict future weather patterns.

Today the study of climatology, the process of getting a picture of the average weather during a particular period of time at a particular site, is still in a stage of infancy, according to Dr. Jerome Clemens, WSU assistant professor of geography.

Clemens and WSU juniors and seniors from a variety of academic disciplines are trying to devise a weather forecasting model for a small area around Dayton. Currently, they are in the process of collecting weather data and comparing it to historical weather records to determine trends in the area's weather systems.

"Developing a weather forecasting model involves a considerable amount of research and observation," Clemens said. "The area's historical records should be studied as far back as 100 years to determine trends in the system." The process is tedious and time-consuming.

Not only is the group collecting and studying historical records but they also are spending a considerable amount of time observing the atmosphere. "One of the difficulties involved in forecasting is the fact that the meteorologist has to wait for the right conditions to appear during observation," Clemens said. "Unlike the biologist or the physicist, the meteorologist cannot bring the experiment into the laboratory."

Clemens and his students are trying to discover what is happening in the earth's atmosphere, then compare free air flow aloft to precipitation, in hopes of being able to predict the weather for a one to five day period.

One of the questions the group wants to answer in the future is "does a severe winter mean that a severe summer will follow?" Historical records have borne out this pattern to an extent Clemens said, but details are not at all clear. Clemens and his students hope some day to be able to predict the area's weather system six months in advance, at least in a qualitative way.

Clemens' interest in the field is specifically in the area of applied climatology, the study of climate in relation to human comfort, architectural design and agriculture.

Scientific studies in recent years have shown that school children perform significantly better during tests when the classroom temperature was carefully controlled, Clemens noted.

Human behavior also is affected by the weather, Clemens said. "Although there is not enough statistical evidence to draw a direct correlation, crimes against people tend to increase during the summer months while crimes against property increase during the winter months."

Health is another field where the climate and changing weather patterns affect humans. "When the climate is warm and moist, infectious diseases occur more frequently," Clemens said. "Changing weather patterns have been the cause of pain for many arthritics and persons who have suffered from broken bones. When the atmospheric pressure decreases, blood cells around the joints in an individual will not adjust to the change in the weather quickly enough, which results in pain for that person," Clemens added.

One boy reportedly broke his leg at age five and at 18, was able to accurately predict a coming snow storm because of the pain in his leg.

Two of the most common ways we have attempted to control the climate in buildings are through the use of heating and air conditioning systems. Clemens mentioned that in the city there are architectural designs and steps that can be taken to control the climate.

"The positioning and size of buildings can be developed in order to control wind patterns," Clemens said. Green space in a downtown area can not only be aesthetically pleasing but also can control carbon dioxide pollution, help to lower daytime temperatures and give extra oxygen."

Clemens mentioned that humans are more productive when the temperature and humidity are at a comfortable level. "In the future we should continously strive to increase our productivity through the use of energy-efficient climate control," Clemens added. •

Seismic coal research

by Deborah McCarty

The Midwest Energy Exploration Company is mining coal in southern Ohio. Engineers and mine operators at the site are using costly extraction equipment when an unexpected fault in the coal deposit is discovered. Midwest has incurred substantial labor and equipment costs only to find that there is no more coal at the site to mine.

Incidents similar to Midwest's are not uncommon in coal exploration and mining, but a team of Wright State University researchers has developed a process which may make such expensive and inefficient incidents rare. The research team has for the past three years been attempting to develop a coal seam continuity test which uses non-destructive seismic waves to locate interruptions in coal deposits. Ideally, their technique will assist mine operators in knowing how and where to mine coal.

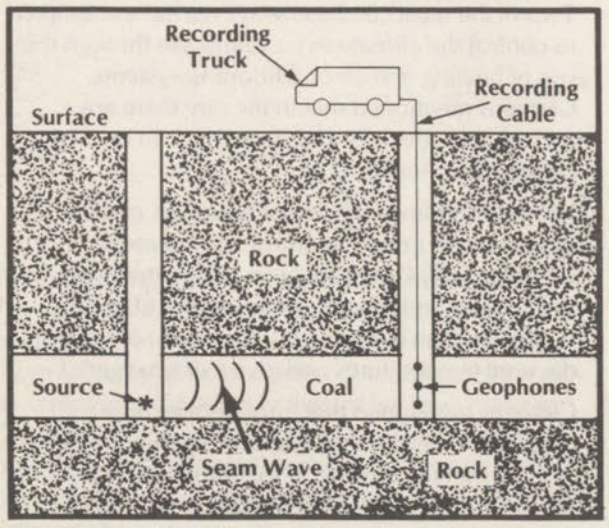
"Coal is a major consideration for Ohio people and Ohio companies," notes Dr. Paul Wolfe, WSU associate professor of geological sciences and physics and a leader of the research team, along with Dr. Ben Richard, professor of geological sciences. The research team also included Dr. Byron Kulander, associate professor of geological sciences, and several graduate students.

The WSU research team received partial funding from the Ohio Coal Research Laboratories in Columbus. Field testing was conducted in association with Consolidation Coal Company at a mine in Cadiz, Ohio, a site chosen for easy accessibility and for its similarity to other coal areas in Ohio and the eastern United States.

Seismic investigation is "a viable tool that can be used to plan coal extraction procedures," Kulander said. "Coupled with exploratory drilling, seismic investigation can expedite coal recovery, and reduce costs."

Coal exploration typically is conducted by drilling a series of boreholes at set distances apart. Geologists extract continuous rock samples from each borehole. These core samples are used to estimate the thickness and continuity of the coal seam.

"Core samples may not be representative of the area between the holes," according to Wolfe. Coal seams range in thickness between boreholes. Pinch-outs (thin deposits of coal which cannot be mined profitably) and faults (interruptions in the coal seam) cannot be adequately predicted using traditional exploratory methods, Wolfe explained.



Cross-section of a borehole-to-borehole survey.

Drilling is an expensive process. With drilling costs running $10 per foot, Wolfe estimated that each borehole may cost $5,000. "Seismic wave testing is less expensive," according to Kulander. "We've decreased the number of intermittent boreholes. Only two boreholes may be necessary to conduct seismic wave testing, where five would have been required by drilling alone."

Coal seam continuity testing is conducted by placing a source generator in a borehole at the coal seam horizon. Geophones—sensors which detect vibrations—are placed in another hole within the coal. Seismic or vibrating waves are produced by the generator.

These seam waves are trapped and guided by the contours of the coal seam. Seam waves are recorded and measured for frequency, velocity, and amplitude. As wave frequency increases, coal seam thickness decreases, indicating pinch-outs or thin deposits of coal.

Detecting the high frequencies transmitted in coal seams was beyond the capabilities of conventional instruments. The WSU team designed both the "pile driver" to produce the wave, and the geophone sensor system to detect it. The sensor system couples solidly to the coal face and samples input signals at one-quarter millisecond intervals. "It's worked beautifully," Richard said.

A seam wave will be reflected when it reaches a fault. Reflected waves are analyzed for travel time and distance. Because a fault causes a wave to lose amplitude strength quickly, faults can be pinpointed at points of abnormally reduced amplitude. Using this method, the WSU team has successfully predicted faults in the coal seam within ten meters of exact location.

The researchers are optimistic about the future applications of their method. "When the technique becomes widely used depends upon how active the coal industry is in developing new mines, and how accurate the procedure is over longer distances. The greater the distance between boreholes, the more money it will save," Wolfe said. "If the technique is perfected, it will enhance the success of marginal surface mining ventures. When marginal deposits can be mined, coal supply will increase," Wolfe added.

"We're working on techniques to better define the location of problem areas so that we can engineer around them," Richard added, "thus reducing life hazards and improving production." ●

Grad students on coal research team

Two of the graduate students who participated in the WSU research team are currently employed by Amoco in Houston.

Greg Bunk was the operator who coordinated the instrumentation for the study.

Tim Holdeman presented the WSU Guided Wave Study before the American Association of Petroleum Geologists. His thesis on this work received their Best Student Paper Award in June, 1981.

Energy economics

by Harry Battson

When Jim Swaney leaves his home for work in the morning, he worries neither about possible traffic congestion nor taking time to fill the gas tank—he just hops on his bicycle and starts pedaling.

"I can be in my office in less than 10 minutes," Swaney says of his daily 2.5 mile trip into Wright State University, where he is an assistant professor of economics. "In fact, it usually takes me less time to come to Wright State on a bicycle than if I were coming by automobile."

Swaney's a dedicated and an experienced cyclist. "It's the most energy efficient method of traveling, several times more efficient even than walking," Swaney says. He makes it a point to know such facts not only because of his keen interest in cycling but also because his academic specialty is energy economics.

He admits to developing a love for bicycling before developing his interest in energy economics. While a graduate student at Colorado State University, Swaney encountered a mammoth parking problem. To avoid it, he began riding a bicycle. He found it good exercise, "and lots of fun."

Since then he has bicycled from New York City, through Canada, and back to Dayton. Annually he joins a spring bicycle tour of the Scioto River Valley. He would like to see bike lanes created along highways to provide additional safety for cyclists, and he feels such lanes could well spur additional interest in bicycling to work, or to the store, or even just down to the bus line for commuters. In each case, the individual and the nation would benefit and America's energy resources would last longer, he says.

Besides not consuming gasoline commuting to work, Swaney attempts to save energy at home as well. When he moved into his home in Beavercreek, the electric company offered him a monthly level billing charge of $70. His normal bill is around $25. His largest has been $31. His home is heated by fuel oil, but Swaney takes conservation methods for that too.

"Money you don't pay the utility company is like extra income," Swaney asserts, "only better because it's not taxed."

The fastest payback conservation methods in the home include insulating your water heater and weatherstripping doors and windows, Swaney notes. Insulating an electric water heater "will pay for itself in six months," he says. Plugging air leaks in homes often conserves more energy than adding insulation, and it's much less expensive.

Swaney is recognized locally as an expert in energy economics and has spoken before the Miami Valley Alternative Energy Association on energy conservation costs and savings. He has testified before the Public Utilities Commission of Ohio opposing a steam heat rate increase request. Swaney also has taught a course at WSU on energy economics and while an instructor at Montana State University, he conducted a seminar on the economics of coal (a burning issue there, he notes, because of the large deposits which can be stripmined.)

As a child, Swaney remembers the conservation habits of his parents who were influenced by America's first conservation-oriented president, Teddy Roosevelt. But energy issues did not concern him greatly until after he obtained both a bachelor's degree in education and a master's in social and applied economics at Wright State. Then he went west, spending several years in Colorado, Nebraska, Wyoming, and Montana as a graduate student and instructor. Natural resource economics was of paramount concern in those western states and Swaney found himself attracted to both the environmental and energy economics issues. After earning his doctorate in economics at Colorado State, Swaney returned to his native area and Wright State.

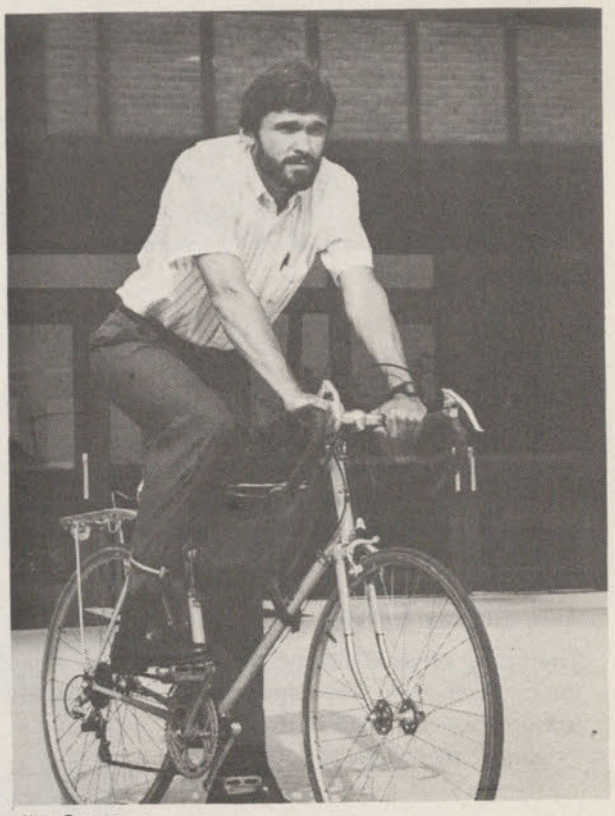
The energy question for the future of America, Swaney believes, is not "Do we run out?" but "What price will we pay?" "At a high enough price, there will always be a supply of energy," he says.

"I would like to see a tax that increases whenever OPEC raises its oil prices," Swaney says. Revenue could go for research, conservation, and tax rebates to people whose jobs required extensive traveling or low income people in areas without mass transit.

Electricity also has been "too cheap," Swaney says. "If it were higher priced, people would conserve more."

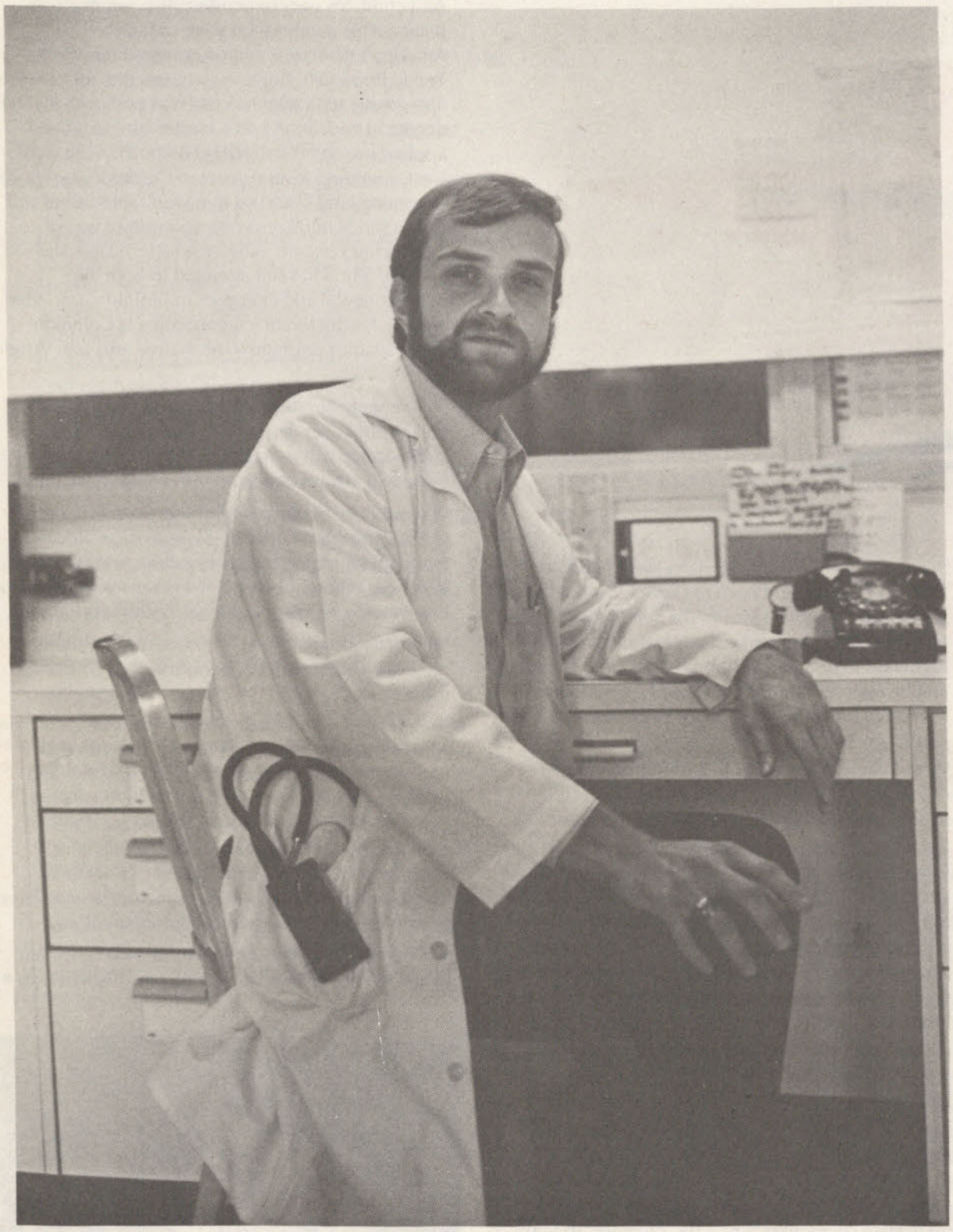
And only high prices seem to have a strong effect on America's energy consumption. It takes time for a nation to reduce its dependence on gasoline and other fuel oils, Swaney said, but today America is consuming less gasoline than before the 1973 oil embargo by the OPEC nations. More efficient automobiles, car pools, increased use of mass transit, and people moving closer to their work have all contributed to decreased oil consumption.

So have the people like Jim Swaney—who bicycle to work. You can't use any less gasoline than that. •



Jim Swaney

Steve Bernardon, M.D. –two years into residency



Steve Bernardon, M.D.

by Ruth Hardin

"My medical career just keeps getting better," says Steve Bernardon, the Wright State School of Medicine's first graduate. Bernardon enrolled at WSU after graduating summa cum laude from St. Louis University, and, due to the alphabetical distribution of diplomas, was the first in line at the 1980 commencement when the initial 31 M.D.s were awarded by WSU.

Then only 21 years old and the youngest member of the class whose age-average was 28, he often was teased about his "lack of experience" by the more "mature" men in the school.

Now, two years after graduation and in the second year of his pediatric residency, Bernardon remains as warm and friendly as he was in medical school. Once a little shy but now very self-assured, he is happy with his career choice.

"I love pediatric medicine and I'm very pleased with Children's Hospital," Bernardon says. "There's always something exciting going on." Located in the heart of Cincinnati's hospital row, Children's Medical Center offers him the variety of pediatrics experiences appropriate to his needs.

1982 has been a good year for him and has proved less stressful than last year, the first of his residency. "I tell our patients they shouldn't get sick in July because that's when the new residents come in, full of anxiety and uncertainty. There is a lot of information and knowledge that is yet to be tried." Actually, he believes the residents as a group are well prepared academically for the residency experience and only the clinical procedures need to be perfected.

"Last year was the most exciting year of my life, and no question, the scariest. I wasn't sure I had learned everything I would need to know and was anxious about my ability to recall the facts in time to apply them," he says. "This year there's more of everything; more patients and much more responsibility. Next year will bring even more of the same."

"I thought I had my hands full last year when I was responsible for six or eight patients; now I have twenty. Also, every fourth night I'm in charge of the whole hospital! This means I'm responsible for everything that goes on. Naturally I don't do everything myself, but it's still an enormous obligation. There are patient histories, checking on prescribed tests, decisions about which patients should be admitted—but I've learned to trust the judgment of others. I depend on the residents to be as conscientious as I would be and trust that they will make the right decisions about patients' care."

Bernardon also believes that patient care is a partnership effort. "It has to be," he says. "Here the nurses help residents, residents help medical students, and everyone does what he or she believes to be right to give the kids the best possible care."

His ready smile, usually accompanied by an embarrassed blush in his medical school years, is sincere and confident. Bernardon's 6'2" frame, once weighing in at nearly 300 pounds, is now slim and trim. "My medical education increased my personal awareness," he explains. "I'm not willing to ignore my own body while I'm telling others about good health practices. Besides, recent research has shown that the more intelligent a person is and the more education he or she has, the more likely he is to stay fit. It makes good sense."

A jogger, he runs at least three times a week, not for time or distance, but as his own personal challenge. "I have twenty or twenty-five minutes to exercise," he says, "so it's my goal to run as far and as fast as I can in the limited amount of time available."

And what does the future hold for him? "I'm not sure where I'll go after I complete my residency. I could go into private pediatrics practice, but that's a long and expensive commitment. I might join an HMO (health maintenance organization) or go into pediatrics emergency room practice."

"Pediatrics ER would be my greatest interest, but with so few hospitals having this facility, I'm limited in where I could go. Children's Hospital in Dayton is the exception."

Regardless of where he goes, he has found happiness and great personal satisfaction in his work in pediatric medicine.●

When you say Ohio, you think of colleges

by Gary Andeen, Executive Secretary, Ohio College Association

Various alumni associations throughout Ohio are spearheading an effort to encourage college and university graduates to unite in increased citizen support of higher education within the state. Ohio currently ranks 48th among the 50 states in per capita support for its colleges and universities. Nevertheless, our 108 public and private non-profit institutions of higher education compose one of America's most respected collegiate communities—an asset worthy of deeper appreciation and support.

Each of the 108 institutions represents a unique learning environment. Indeed, while it is this uniqueness that makes it special to its staff and students, and to its alumni and friends, it is the sum of their endeavor and achievement which has caused us to give them a warm place in our hearts.

Maintaining 133 campuses in 80 cities and towns throughout the state, this multiplicity of academic centers reflects a concern for providing Ohio's 11 million people a broad choice in the type and location of higher education best suited to each individual. The diversity of settings and programs is one of the most cherished features of Ohio's higher education enterprise.

Another keystone of our enterprise is its national and international reputation for overall excellence. Annually, these institutions produce some 70,000 graduates in approximately 360 program areas. Each year, over 800 students receive degrees in agriculture and natural resource fields, 14,200 in business and management, 1,100 in computer and information management, 11,500 in education, 5,500 in engineering, 2,600 in fine arts, 500 in foreign languages, and 5,400 in health professions, to mention a few general categories.

To produce these graduates, higher education in Ohio annually registers some 490,000 students, about 10 percent of whom are from out-of-state. Approximately one billion dollars of payroll underwrites about 8,400,000 hours of instruction each year. This instruction is supported by buildings and equipment with a replacement value in excess of nine billion dollars.

Much of the quality edge our institutions enjoy is the result of income generated by alumni and friends through endowments. The combined market value of collegiate endowments in Ohio is estimated at $550 million.

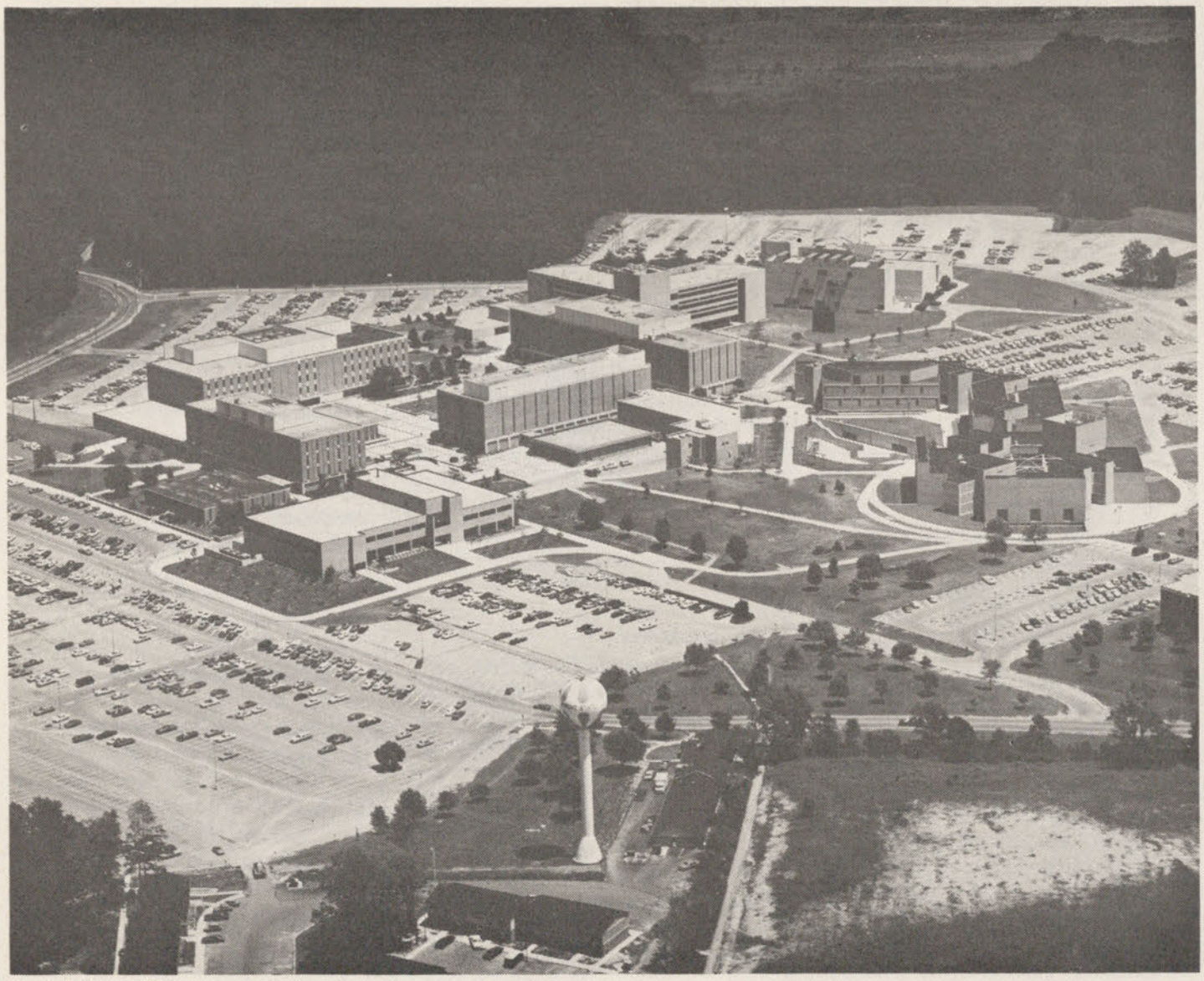
The impact of these colleges and universities, however, reaches far beyond the current class of students. Each year tens of thousands of college-sponsored cultural and athletic events are available to all our citizens, not to mention hundreds of college and university libraries, museums, and art galleries. College and university laboratories in Ohio annually conduct over $100 million—this much just at OSU—in sponsored research for industry and government. The presence of these institutions in the state's overall economy generates between 65 and 70 thousand additional jobs in secondary service and support industries. Out-of-state students attracted here add over $500 million a year to Ohio's economy.

The greatest significance of these institutions is that they attract faculty and produce graduates with the skills to be productive, they resolve to tackle the problems of civilization, and the imagination to appreciate and contribute to the beauty in each moment of life. This singular contribution to the people of Ohio represents an asset of inestimable value and vital importance to the social, political, and economic life of this state and this country.

Along with private enterprise and government, Ohio's colleges and universities clearly play a key role in this state's future. Alumni of these institutions are the primary stockholders; the size and quality of the dividends will be determined by their ongoing support.

Please assist your elected public officials by helping them work for all of higher education. Ohio's energy is mindpower and Ohio's future and best hope for economic recovery depends in large part on our continued—and improved—investment in higher education.•

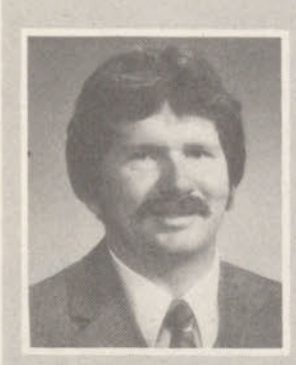
(This report was prepared by representatives of The Alumni Directors of Ohio's State Universities, the Ohio College Association, and the Independent College Advancement Association.)



Aerial view of Wright State University.

Alumnotes

Director's column



Pat Moran

In September I was pleased to attend a conference, devoted to the subject of student/alumni groups, held at Indiana University in Bloomington, Indiana. This fall the Wright State Alumni Association hopes to initiate its own Undergraduate-Alumni Council. The purpose of the council is to bring students and alumni together at different levels and foster mutual understanding. I am excited about the Undergraduate-Alumni Council and will give you periodic reports on their activities as the academic year progresses.

We are pleased to announce that our 1981-82 Alumni Annual Fund Campaign generated a total of $64,000+ in alumni support for our university. Alumni contributed $24,000+ in individual contributions; $20,000 was received in the form of a bequest; $2,400 in matching funds from corporations, $10,000 was received in gifts in kind and a $5,228 gift was received from the Alumni Association. This year's campaign is already underway, with our first direct mailing at the end of September. We are following up with a phonathon October 17-28, and look forward to talking to you during that time.

WSU sports programs including soccer, volleyball, and basketball will add excitement to the fall and winter months. Basketball will begin December 1 with the season opener against Indiana State-Evansville. Basketball coach Ralph Underhill is very optimistic about the Raider team.

Hope your fall is a good one and please keep in touch.

69-75

Gutridge

David S. Gutridge
(B.S. Accountancy 69) has been promoted to senior vice-president, finance and chief financial officer at DAYCO in Dayton. He joined DAYCO in 1976 as assistant controller of the corporation. He graduated first in his class at Wright State and won an award as the top business and outstanding accounting student. He and his wife Saundra have two children and live in Beavercreek, Ohio.

Donald E. Karl
(B.S. Systems Engineering 69) formerly vice-president of operations for Invacare Corporation, has been named senior vice-president of operations. Donald, his wife, and three children live in Bay Village, Ohio.

Reck

Gary Reck
(B.S. Elementary Education 70) has been promoted to the position of personnel director at the Mead Johnson and Company in Evansville, Indiana. Reck joined the company in 1973 as supervisor of administrative services at Mead Johnson's Zeeland, Michigan plant, and in 1976 was promoted to manager of employee relations in Evansville. Gary, his wife, and their three children live in Evansville.

Harsh

Susan L. Harsh
(B.A. German 71) was ordained a Deacon of the North Carolina Conference of the United Methodist Church. Susan has been appointed to serve as associate minister of First United Methodist Church in Graham, North Carolina. She is also continuing her studies at Duke Divinity School on a part-time basis.

Barbara Burns
(M. Elementary Education 73) is a teacher in the Huber Heights school system. She recently received a Master Teacher Award from the majority vote of her peers in the school system.

Steven Deneke
(B.S. Accountancy 73) has been appointed vice-president and assistant treasurer of T.V. Travel, Inc. Steven and his wife live in Kettering, Ohio with their three daughters.

Vanessa Guenther
(M.B.A. Education 73) is in her second year of study at University of Dayton School of Law.

Michael P. McGuire
(B.S. Marketing 73) has been promoted to manager of fleet and aftermarket sales for Dayton-Walther Corp. of Dayton. He will supervise national aftermarket distributor groups and will direct efforts at the fleet level for specifications on all Dayton-Walther product lines.

Bruce L. Moon
(B.S. Art Education 73) recently received the Master of Divinity degree from the Methodist Theological School in Ohio. Bruce is currently employed as supervisor of adolescent activity services at Harding Hospital in Columbus, Ohio, and as instructor in art therapy at the Columbus College of Art and Design.

Randy Reid
(B.S. Psychology 73) and his wife Pat drive cabs in the Dayton area and actually met in the office of the cab company. They were the subject of a Personality Profile in *The Magazine* section of the *Dayton Daily News* this summer. Pat is attending Wright State working for her degree. They have found cab driving to be a good way to earn money and attend college.

Steve Arndts
(B.S. Accountancy 74) accepted a position with Dollarama/Action Industries as a regional sales manager. Prior to his current position, Steve was employed for 15 years by Goldman's department stores where he served as a senior buyer and merchandise manager.

H. Patrick Covault
(B.S. Biological Sciences 75) recently graduated from Loyola University of Chicago with a Doctor of Philosophy degree.

Jack Froschauer
(B.A. English 75) recently joined Bill Appel & Associates, a Detroit-based manufacturers representative firm. He is responsible for sales and consultation relative to automotive marketing. Jack was previously employed as the automotive and toy buyer for Goldman's department stores in Dayton.

William Stewart Moore, Jr.
(B.S. Elementary Education 75) graduated from the Southern Baptist Theological Seminary in Louisville, Kentucky.

Timothy E. Ryan
(B.S. Biological Sciences 75) received his Doctor of Osteopathy degree from Kirksville College of Osteopathic Medicine in Kirksville, Missouri. He will intern at the South Bend Osteopathic Hospital in South Bend, Indiana.

John Stanley
(B.A. Urban Studies 75) was promoted to assistant cashier at the First National Bank in Dayton. He joined the bank in 1977 as a teller.

Michael Thase
(B.A. Psychology 75) is pursuing a doctorate in psychology in Pittsburgh. He and his wife Linda are the parents of a baby daughter, Sarah.

Constituency group meets

Wright State's Alumni Association's Business Constituency sponsored their first major activity last month on the main campus. Graduates of the College of Business and Administration and their spouses and guests were invited to participate. Sporting events, tours of the new business facility, Rike Hall, and cocktails and a steak dinner highlighted the day's activities.

Alumni contribution

Dr. Jacob B. Paperman, chairman of the Department of Accountancy, accepts a check from Arthur Andersen & Co. matching the contributions of WSU alumni employees of the firm. Presenting the check is Robert E. VanDine. Other Arthur Andersen & Co. contributing alumni were Craig Chatwood, Ronald Huist, and James Neitzke.

Salsburg Scholarships awarded

Two Wright State students were awarded the Frank I. Salsburg Memorial Honors Scholarships for the 1982-83 academic year. The award recipients, Eileen Ribbler and Catherine Queener, will each receive $1,500 to continue their educations in the Honors Program. The scholarship was established by the late Frank Salsburg, a WSU alumnus, for the purpose of encouraging academic excellence.

76-79

David Buthker
(B.S. Finance 76) is employed in real estate and property management in the Dayton area. Last summer he married Lisa Bartlett.

Logan

Barbara L. Logan
(B.S. Accountancy 77) has been appointed manager at Deloitte Haskins & Sells, Certified Public Accountants in Dayton. She is a member of the American Institute of Certified Public Accountants, The Ohio Society of CPAs, The National Association of Accountants, and the American Business Women's Association.

Richard T. Monroe, Jr.
(B.S. Accountancy 77) works for Coca Cola Bottling Company of Los Angeles as an accountant in the financial analysis and budgeting department, and is currently living in Covina, California.

Charles A. Mowery
(B.A. Social Work 77) was selected a member of the United States Cerebral Palsy Olympic Team. He represented the USA at the International Cerebral Palsy Games in Greve, Denmark. Since 1979 he has won 23 first-place awards in regional and national competitions in a variety of events.

Robert M. Hamilton
(B.S. Biological Sciences 78) graduated from the University of Cincinnati School of Medicine. He will begin his residency at Allegheny General Hospital in Pittsburgh, Pa. Robert married Martha Chalmers in 1980.

Dan Lynch
(M. Education 78) was named Secondary Teacher of the Year by Dayton Public Schools. The Beavercreek resident teaches commercial arts at Patterson Cooperative High School and served as the varsity soccer coach from 1979-1981.

Thomas J. Montgomery
(B.A. Religion and Classics 78) received the Master of Divinity degree from the Methodist Theological School, Delaware, Ohio. Thomas has been appointed pastor of Big Springs, Harper, and Rushsylvania United Methodist churches.

Lisa (Karen) Norris
(B.S. Elementary Education 78) recently signed a contract with the National Opera Company of Raleigh, North Carolina, a touring group. Lisa is living in Raleigh and will give 100 performances with the group.

Lynnette Rae Woodworth
(B.S. Education 79) is a teacher of language arts on the staff of the L.T. Ball Middle School in Tipp City. She recently announced her engagement to Randy Lynn Shirk of Beavercreek, Ohio. The couple plans a December wedding.

80-82

Leet

Julia A. Leet
(M.S. Business 80) is a program analyst for AFTI/F-16 in the flight dynamics laboratory for Wright-Patterson Air Force Base in Dayton. Her responsibilities include tracking and analyzing program cost and performance. She was recently selected for the Air Force comptroller civilian career management program. She has assisted with workshops in life/career planning, problem solving and team building.

Ralph S. Heyer
(B.S. Environmental Biology 80) is working on his master of science degree in biology at the University of Texas. He is employed by the Nuclear Regulatory Commission at Dallas, Texas, where he serves as a health physicist.

Bryan C. Thompson
(B.S. Urban Studies 80) is the manager of employee transportation at General Electric in Evendale, Ohio. Bryan plays rugby for Cincinnati's Queen City Rugby Club.

Karen Lackey
(B.A. Education 81) teaches health in the Wellston City School System for kindergarten through sixth grade in two elementary schools.

Nancy Sue Kubina
(B.A. Music 81) recently exchanged wedding vows with Philip M. Longo of Springfield. Nancy is presently working on her master of arts degree in history at WSU. She is employed at Wright-Patterson as an employee relations clerk.

Michael A. Hill
(M.D. 82) and his wife are living in Durham, North Carolina, where Michael is taking his residency training at the University of North Carolina Memorial Hospital.

Carrie Patricia Sweeney
(B.S. Nursing 82) is working at Miami Valley Hospital in Dayton as a nurse.

Artist Series lineup

by Martha Antolik

The 1982-83 season of Wright State University's Artist Series opened in September with a performance of the National Opera Company. Noted for a "grass roots" approach to opera, the professional troupe from Raleigh, North Carolina performed in English the popular opera *Die Fledermaus* (The Bat), by Johann Strauss in the Creative Arts Center Concert Hall.

Lisa Norris, a WSU alumna and a current member of the company, performed in *Die Fledermaus*. Former members have gone on to join larger companies such as the Metropolitan Opera, the New York City Opera, the Zurich and the Vienna State Operas.

Featured in the Artist Series lineup this year will be the Castellani-Andriaccio Duo, performing a classical guitar duo on February 17 in the Concert Hall of the Creative Arts Center. Highly acclaimed in the unusual art of duo playing, they have appeared at international festivals on two continents and received praise from audiences and critics alike for performances in North America, Latin America, and Europe.

A husband and wife team, both Joanne Castellani and Michael Andriaccio are professors at the State University of New York at Fredonia and Buffalo. Their repertoire is varied, running from classical selections never before transcribed for the guitar, to contemporary compositions which they have premiered. The Castellani-Andriaccio Duo record for the Icarus label.

Other events in the Artist Series will be Dr. William J. Steinohrt, directing the WSU music department's interpretation of 20th century chamber music on April 7, and the WSU Jazz Ensemble performing with soloist Rich Matteson on May 17.

Scheduled in conjunction with the Artist Series will be the Dayton Philharmonic "Thursday Series," on November 18, 1982, February 24 and April 21, 1983, at Memorial Hall in Dayton.

Tickets are available at the WSU Hollow Tree Box Office. For information or tickets, call 873-2900.

Here's looking at you Bogey

S. Gwyn Hurley

Peering out from under the rim of his rakishly tilted hat, the man saunters across the room to the bar. Taking a slow drag off his cigarette, he lets his mind drift with the melancholy music back to a different time, a different place . . . He wonders how, of all the little gin joints, in all the little places in the world, she happened into his . . .

You don't have to be a Humphrey Bogart fan to recognize the trappings of one of the most well-known Bogey films, *Casablanca*, winner of the 1943 Academy Award for Best Picture. As Richard Hansen, business manager and assistant to the chairman in the WSU Department of Theatre Arts, says, "Even if you're not a film buff, you can know several films of Bogey's."

Members of the Wright State community had a special opportunity to "know the films of Bogey's" recently when *Casablanca* and *Key Largo*, were shown in the Rathskellar, the on-campus pizzeria. Beth Evilsizor, WSU sophomore who chaired the committee which sponsored the movie presentations, said the Bogey films were brought to WSU because *Casablanca* is a recognized "classic" and *Key Largo* has received recent attention as the inspiration of a popular song by the same name. The movies attracted an above average audience, she noted.

One of the main reasons for Bogey's resurgent popularity, Hansen believes, is that "Bogart is the ultimate anti-hero. In the process of being a good guy, he wasn't always good. Even when Bogart plays a bad guy, the audience still can like him. As a good guy, he didn't always do what was expected." For example, Hansen says, in *The Maltese Falcon*, Bogart "turns the girl into the police, even though he is in love with her. No one else could carry it off."

A second reason for Bogey's popularity, Hansen says, is that "kids want to look at the original man." Several current stars model themselves or some of their work after Bogey, Hansen notes. "Harrison Ford has been likened to Bogey by the critics," says Hansen. Ford starred in the popular *Raiders of the Lost Ark*, a nominee for an Academy Award for Best Picture. "The hat that Harrison wore in *Raiders* was a 'Bogey' hat," Hansen points out.

Another recent film, *Dead Men Don't Wear Plaid*, features old film clips spliced into the movie, with more Bogey clips than those of any other star, Hansen says. Star Steve Martin also relies on Sam Spade, a Bogart character, throughout the film as an assistant.

"As a child, Woody Allen was a big Bogey fan," Hansen adds. "In Allen's film *Play It Again Sam*, Bogart comes back as his character in *Casablanca* to give advice on romance to Allen's character."

Reminders of Bogart's career are plentiful. Bogart's most successful marriage was with Lauren Bacall, former star of the Broadway hit, *Woman of the Year*. Contemporary James Cagney recently emerged from retirement to do *Ragtime*. Katharine Hepburn, who starred with Bogart in *The African Queen*, for which Bogart won an Academy Award for Best Actor, recently captured the Academy Award for Best Actress for *On Golden Pond*.

And late night television has become a mecca for Bogey fans.

Bogey has become a cornerstone in the American penchant for nostalgia, reflected by the chorus of the song "Key Largo."

"We had it all
Just like Bogey and Bacall
Starring in our own late, late show
Sailing away to Key Largo."

Bogey and his films bring to mind a time when life was so much simpler.

A kiss was just a kiss; a smile was just a smile . . .●